

AMENDMENT IN THE CLAIMS

1. (Currently Amended) A droplet ejecting apparatus, comprising:

a channel unit having a plurality of pressure ~~chamber~~ chambers which communicates, at a respective first ~~end~~ ends thereof, with a liquid supply manifold so as to be supplied with a liquid by the liquid supply manifold and, at a respective second ~~end~~ ends thereof, with a ~~nozzle~~ respective nozzles so as to eject a ~~droplet~~ respective droplets of the liquid through the ~~nozzle~~ respective nozzles; and

an actuator unit fixed to the channel unit,

wherein the actuator unit has a plurality of groups of active portions ~~each~~ group of which includes at least two active portions which are opposed in a first direction to a corresponding one of the plurality of said pressure ~~chamber~~ chambers, at respective different positions in a second direction perpendicular to the first direction, ~~and each of which~~

wherein each of said at least two active portions of said each group includes a piezoelectric sheet, and a first electrode and a second electrode which are opposed to each other in a direction of thickness of the piezoelectric sheet that is parallel to the first direction, such that the first and second electrode cooperate with each other to sandwich the piezoelectric sheet, and

wherein when an electric voltage is applied across the first and second electrodes of said each of the at least two active portions of said each group, the at least two active portions are deformed to change a volume of said corresponding pressure chamber.

2. (Currently Amended) The apparatus according to claim 1, wherein the respective piezoelectric sheets of the ~~plurality of~~ at least two active portions of said each group comprise respective portions of a common piezoelectric sheet which additionally includes at least one intermediate portion continuous with said respective portions in a direction in which said at least two active portions are distant from each other, and the respective portions of the common piezoelectric sheet are polarized in a direction of thickness of the common piezoelectric sheet, and wherein when an electric field is applied to the respective portions of the common piezoelectric sheet ~~of each of the plurality of active portions~~ in a same direction

as the direction of polarization thereof, said ~~each~~ at least two active ~~portion is~~ portions are elongated in the direction of thickness of the common piezoelectric sheet.

3. (Currently Amended) The apparatus according to claim 2, wherein ~~the plurality of active portions comprise~~ said each group comprises two active portions, and wherein a distance between the two active portions of said each group is selected at a value which assures that, when the two active portions are elongated in the direction of thickness of the common piezoelectric sheet, a an intermediate portion of the common piezoelectric sheet that is located between the two active portions is elongated in a same direction as the direction of elongation of the two active portions.

4. (Currently Amended) The apparatus according to claim 3, wherein said intermediate portion of the common piezoelectric sheet that is located between the two active portions of said each group is elongated in the same direction as the direction of elongation of the two active portions, by not less than 90 % of an amount of elongation of each of the two active portions.

5. (Currently Amended) The apparatus according to claim 1, wherein an outer end portion of ~~an outermost~~ at least one of the plurality of at least two active portions of said each group that are opposed to the corresponding pressure chamber is located at a position corresponding to a vicinity of an end portion of the corresponding pressure chamber.

6. (Currently Amended) The apparatus according to claim 5, wherein the corresponding pressure chamber comprises an elongate pressure chamber, and ~~the plurality of active portions comprise~~ said each group comprises two active portions that are distant from each other by a predetermined distance in a lengthwise direction of the elongate pressure chamber, and wherein an outer end portion of at least one of the two active portions is located at a position inwardly distant from at least one of lengthwise opposite ends of the elongate pressure chamber by not more than 50 % of said predetermined distance.

7. (Currently Amended) The apparatus according to claim 1, wherein a ratio of a sum of respective areas of the ~~plurality of~~ at least two active portions of said each group to an area

equal to a product of a length of the pressure chamber and a width of each of the at least two active portions as measured in a direction perpendicular to a lengthwise direction of the corresponding pressure chamber is not smaller than 0.7 and smaller than 1.

8. (Currently Amended) The apparatus according to claim 1, wherein the corresponding pressure chamber comprises an elongate pressure chamber, and the ~~plurality of~~ at least two active portions of said each group comprise two elongate active portions which are distant from each other in a lengthwise direction of the elongate pressure chamber and each of which extends parallel to the elongate pressure chamber, and wherein the elongate pressure chamber has a first width, and each of the elongate active portions has a second width smaller than the first width.

9. (Original) The apparatus according to claim 8, wherein a ratio of a sum of respective areas of the elongate active portions to an area equal to a product of the second width of said each elongate active portion and a length of the elongate pressure chamber is not smaller than 0.7 and smaller than 1.

10. (Original) The apparatus according to claim 8, wherein a ratio of a sum of respective lengths of the elongate active portions to a length of the elongate pressure chamber is not smaller than 0.7 and smaller than 1.

11. (Cancelled)

12. (Currently Amended) The apparatus according to claim ~~11~~ 1, wherein the ~~common~~ liquid supply manifold comprises an ink supply manifold which supplies an ink as the liquid, and wherein the actuator unit changes a volume of each of the pressure chambers of the channel unit, so as to eject, from a corresponding one of the nozzles, a droplet of the ink as the droplet of the liquid and thereby form an image on a recording medium.

13. (Currently Amended) A droplet ejecting apparatus, comprising:

a channel unit having a plurality of elongate pressure ~~chamber~~ chambers which communicates, at a respective first ~~end~~ ends thereof, with a liquid supply manifold so as to be supplied with a liquid by the liquid supply manifold and, at a respective second ~~end~~

ends thereof, with a ~~nozzle~~ respective nozzles so as to eject a ~~droplet~~ respective droplets of the liquid through the ~~nozzle~~ respective nozzles; and

an actuator unit fixed to the channel unit,

wherein the actuator unit has a plurality of groups of elongate active portions each group of which includes at least two elongate active portions which are opposed in a first direction to a corresponding one of the plurality of said elongate pressure chamber chambers, at respective different positions in a second direction perpendicular to the first direction, ~~and each of which~~

wherein each of said at least two elongate active portions of said each group includes a piezoelectric sheet, and a first electrode and a second electrode which are opposed to each other in a direction of thickness of the piezoelectric sheet that is parallel to the first direction, such that the first and second electrodes cooperate with each other to sandwich the piezoelectric sheet,

wherein when an electric voltage is applied across the first and second electrodes of said each of the at least two elongate active portions of said each group, the at least two elongate active portions are deformed to change a volume of said corresponding elongate pressure chamber, and

wherein a ratio of a sum of respective lengths of the at least two elongate active portions of said each group to a length of the corresponding elongate pressure chamber is not smaller than 0.7 and smaller than 1.

14. (New) The apparatus according to claim 1, further comprising a driver circuit which drives the actuator unit in a single driving mode in which the driver circuit simultaneously applies respective equal electric voltages to said at least two active portions of an arbitrary one of the plurality of groups so as to deform said at least two active portions and thereby change the volume of said corresponding pressure chamber, and which does not drive the actuator unit in any modes different from said single driving mode.

15. (New) The apparatus according to claim 2, wherein the common piezoelectric sheet is commonly opposed in the first direction to respective entire areas of the plurality of pressure chambers.

- 16. (New) The apparatus according to claim 7, wherein said ratio is smaller than 0.8.
- 17. (New) The apparatus according to claim 9, wherein said ratio is smaller than 0.8.
- 18. (New) The apparatus according to claim 10, wherein said ratio is smaller than 0.8.
- 19. (New) The apparatus according to claim 13, wherein said ratio is smaller than 0.8.